CLAIMS:

1. A method of eliciting or inducing, in a mammal, an immune response directed to a micro-organism said method comprising administering to said mammal an effective amount of an immunogenic composition which composition comprises a molecule capable of inducing an immune response directed to the inositol glycan domain of a GPI but which molecule is substantially incapable of inducing an immune response directed to a lipidic domain of GPI.

2. A method according to claim 1 wherein said molecule is a modified GPI molecule or derivative or equivalent thereof and which modified GPI molecule comprises insufficient lipidic domain to induce or elicit an immune response directed to a GPI lipidic domain.

3. A method according to claim 2 wherein said modified GPI molecule is the inositolglycan domain portion of GPI or derivative or equivalent thereof.

4. A method according to claim 2 ~~or 3~~ wherein said modified GPI molecule is a modified parasite GPI molecule or derivative or equivalent thereof.

5. A method according to claim 4 wherein said parasite is *Plasmodium*.

6. A method according to claim 5 wherein said *Plasmodium* is *Plasmodium falciparum*.

7. A method according to claim 6 wherein said modified *Plasmodium falciparum* GPI molecule is a *Plasmodium falciparum* GPI inositolglycan domain.

8. A method according to claim 7 wherein said GPI inositol glycan domain comprises the structure

ethanolamine-phosphate-(Manα1,2)-Manα1,2Manα1,6Manα1,4GlcN-*myo*-inositol phosphoglycerol

or derivative or equivalent thereof.

9. A method according to claim 7 wherein said GPI inositol glycan domain comprises the structure

X_1 - X_2 - X_3 -X_4 - ethanolamine-phosphate-(Manα1,2)-Manα1,2Manα1,6Manα1,4GlcN-*myo*-inositol phosphoglycerol

wherein X_1, X_2, X_3 and X_4 are any 4 amino acids, or derivative or equivalent of said GPI inositolglycan domain.

10. A method according to claim 7 wherein said GPI inositolglycan domain comprises a structure selected from:

EtN-P-[Mα2]Mα2 Mα6 Mα4Gα6Ino
EtN-P-[Mα2][G]Mα2 Mα6 Mα4Gα6Ino
EtN-P-[Mα2][X]Mα2 Mα6 Mα4Gα6Ino
EtN-P-[Mα2][EtN-P]Mα2 Mα6 Mα4Gα6Ino
EtN-P-Mα2 Mα6 Mα4G
Mα2 Mα6 Mα4G
EtN-P-Mα2 Mα6 M
EtN-P-[Mα2][G]Mα2 Mα6 Mα4G
EtN-P-[Mα2][X]Mα2 Mα6 Mα4G
EtN-P-[Mα2][EtN-P]Mα2 Mα6 Mα4G

Mα2 [Mα2][G]Mα2 Mα6 Mα4G

Mα2 [Mα2][X]Mα2 Mα6 Mα4G

Mα2 [Mα2][EtN-P]Mα6 Mα4G

Mα6 Mα4Gα6Ino

Mα2 Mα6 Mα4Gα6Ino

Mα2 [Mα2]Mα6 Mα4Gα6Ino

Mα2 [Mα2][G]Mα6 Mα4Gα6Ino

Mα2 [Mα2][X]Mα6 Mα4Gα6Ino

EtN-P-[Mα2][G]Mα2 Mα6 M

EtN-P-[Mα2][X]Mα2 Mα6 M

EtN-P-[Mα2][EtN-P]Mα2 Mα6 M

Mα2 [Mα2][G]Mα2 Mα6 M

Mα2 [Mα2][X]Mα2 Mα6 M

Mα2 [Mα2][EtN-P]Mα6 M

Mα2 Mα6 M

Mα6 Mα4G

EtN-P-[Mα2][G]Mα2 M

EtN-P-[Mα2][X]Mα2 M

EtN-P-[Mα2][EtN-P]Mα2 M

or derivative or equivalent thereof wherein EtN is ethanolamine, P is phosphate, M is mannose, G is non-N-acetylated glucosamine, [G] is any non-N-acetylated hexosamine, Ino is inositol or inositol-phosphoglycerol, [X] is any other substituent, α represents α-linkages which may be substituted with β-linkages wherever required, and numeric values represent positional linkages which may be substituted with any other positional linkages as required.

11. A method of therapeutically or prophylactically treating a mammal for a micro-organism infection said method comprising administering to said mammal an effective amount of an immunogenic composition which composition comprises a

molecule capable of inducing an immune response directed to the inositolglycan domain of a GPI, but substantially incapable of inducing an immune response directed to the lipid domain of a GPI, for a time and under conditions sufficient for said immune response to reduce, inhibit or otherwise alleviate any one or more symptoms associated with infection of said mammal by said micro-organism.

12. A method according to claim 11 wherein said molecule is a modified GPI molecule or derivative or equivalent thereof and which modified GPI molecule comprises insufficient lipid domain to induce or elicit an immune response directed to a GPI lipidic domain.

13. A method according to claim 12 wherein said micro-organism infection is a parasite infection.

14. A method according to claim 13 wherein said parasite is *Plasmodium*.

15. A method according to claim 14 wherein said *Plasmodium* is *Plasmodium falciparum*.

16. A method according to any one of ~~claims 13-15~~ claim 13 wherein said modified GPI molecule is a modified parasite GPI molecule or derivative or equivalent thereof.

17. A method according to claim 16 wherein said parasite is *Plasmodium*.

18. A method according to claim 17 wherein a said *Plasmodium* is *Plasmodium falciparum*.

19. A method according to claim 18 wherein said modified *Plasmodium falciparum* GPI molecule is a *Plasmodium falciparum* GPI inositolglycan domain.

20. A method according to claim 19 wherein said GPI inositolglycan domain comprises the structure

ethanolamine-phosphate-(Manα1,2)-Manα1,2Manα1,6Manα1,4GlcN-*myo*-inositol phosphoglycerol

or derivative or equivalent thereof.

21. A method according to claim 19 wherein said GPI inositolglycan domain comprises the structure

X_1 - X_2 - X_3 -X_4 - ethanolamine-phosphate-(Manα1,2)-Manα1,2Manα1,6Manα1,4GlcN-*myo*-inositol phosphoglycerol

wherein X_1, X_2, X_3 and X_4 are any 4 amino acids, or derivative or equivalent of said GPI inositolglycan domain.

22. A method according to claim 19 wherein said GPI inositolglycan domain comprises a structure selected from:

EtN-P-[Mα2]Mα2 Mα6 Mα4Gα6Ino
EtN-P-[Mα2][G]Mα2 Mα6 Mα4Gα6Ino
EtN-P-[Mα2][X]Mα2 Mα6 Mα4Gα6Ino
EtN-P-[Mα2][EtN-P]Mα2 Mα6 Mα4Gα6Ino
EtN-P-Mα2 Mα6 Mα4G
Mα2 Mα6 Mα4G
EtN-P-Mα2 Mα6 M
EtN-P-[Mα2][G]Mα2 Mα6 Mα4G
EtN-P-[Mα2][X]Mα2 Mα6 Mα4G
EtN-P-[Mα2][EtN-P]Mα2 Mα6 Mα4G

Mα2 [Mα2][G]Mα2 Mα6 Mα4G

Mα2 [Mα2][X]Mα2 Mα6 Mα4G

Mα2 [Mα2][EtN-P]Mα6 Mα4G

Mα6 Mα4Gα6Ino

Mα2 Mα6 Mα4Gα6Ino

Mα2 [Mα2]Mα6 Mα4Gα6Ino

Mα2 [Mα2][G]Mα6 Mα4Gα6Ino

Mα2 [Mα2][X]Mα6 Mα4Gα6Ino

EtN-P-[Mα2][G]Mα2 Mα6 M

EtN-P-[Mα2][X]Mα2 Mα6 M

EtN-P-[Mα2][EtN-P]Mα2 Mα6 M

Mα2 [Mα2][G]Mα2 Mα6 M

Mα2 [Mα2][X]Mα2 Mα6 M

Mα2 [Mα2][EtN-P]Mα6 M

Mα2 Mα6 M

Mα6 Mα4G

EtN-P-[Mα2][G]Mα2 M

EtN-P-[Mα2][X]Mα2 M

EtN-P-[Mα2][EtN-P]Mα2 M

or derivative or equivalent thereof wherein EtN is ethanolamine, P is phosphate, M is mannose, G is non-N-acetylated glucosamine, [G] is any non-N-acetylated hexosamine, Ino is inositol or inositol-phosphoglycerol, [X] is any other substituent, α represents α-linkages which may be substituted with β-linkages wherever required, and numeric values represent positional linkages which may be substituted with any other positional linkages as required.

23. A method for the treatment and/or prophylaxis of a mammalian disease condition characterised by a micro-organism infection, said method comprising administering to said mammal an effective amount of an immunogenic

composition which composition comprises a molecule capable of inducing an immune response directed to the inositolglycan domain of a GPI, but substantially incapable of inducing an immune response directed to the lipid domain of a GPI, for a time and under conditions sufficient for said immune response to reduce, inhibit or otherwise alleviate any one or more symptoms associated with said micro-organism infections.

24. A method according to claim 23 wherein said molecule is a modified GPI molecule or derivative or equivalent thereof and which modified GPI molecule comprises insufficient lipid domain to induce or elicit an immune response directed to a GPI lipidic domain.

25. A method according to claim 24 wherein said modified GPI molecule is the inositolglycan domain portion of GPI or derivative or equivalent thereof.

26. A method according to claim 24 ~~or 25~~ wherein said modified GPI molecule is a modified parasite GPI molecule or derivative or equivalent thereof.

27. A method according to claim 26 wherein said parasite is *Plasmodium*.

28. A method according to claim 27 wherein said *Plasmodium* is *Plasmodium falciparum*.

29. A method according to claim 28 wherein said modified *Plasmodium falciparum* GPI molecule is a *Plasmodium falciparum* GPI inositolglycan domain.

30. A method according to claim 29 wherein said GPI inositolglycan domain comprises the structure

ethanolamine-phosphate-(Manα1,2)-Manα1,2Manα1,6Manα1,4GlcN-*myo*-inositol phosphoglycerol

or derivative or equivalent thereof.

31. A method according to claim 29 wherein said GPI inositolglycan domain comprises the structure

X_1 - X_2 - X_3 -X_4 - ethanolamine-phosphate-(Manα1,2)-Manα1,2Manα1,6Manα1,4GlcN-*myo*-inositol phosphoglycerol

wherein X_1, X_2, X_3 and X_4 are any 4 amino acids, or derivative or equivalent of said GPI inositolglycan domain.

32. A method according to claim 29 wherein said GPI inositolglycan domain comprises the structure:

EtN-P-[Mα2]Mα2 Mα6 Mα4Gα6Ino
EtN-P-[Mα2][G]Mα2 Mα6 Mα4Gα6Ino
EtN-P-[Mα2][X]Mα2 Mα6 Mα4Gα6Ino
EtN-P-[Mα2][EtN-P]Mα2 Mα6 Mα4Gα6Ino
EtN-P-Mα2 Mα6 Mα4G
Mα2 Mα6 Mα4G
EtN-P-Mα2 Mα6 M
EtN-P-[Mα2][G]Mα2 Mα6 Mα4G
EtN-P-[Mα2][X]Mα2 Mα6 Mα4G
EtN-P-[Mα2][EtN-P]Mα2 Mα6 Mα4G
Mα2 [Mα2][G]Mα2 Mα6 Mα4G
Mα2 [Mα2][X]Mα2 Mα6 Mα4G
Mα2 [Mα2][EtN-P]Mα6 Mα4G
Mα6 Mα4Gα6Ino

Mα2 Mα6 Mα4Gα6Ino

Mα2 [Mα2]Mα6 Mα4Gα6Ino

Mα2 [Mα2][G]Mα6 Mα4Gα6Ino

Mα2 [Mα2][X]Mα6 Mα4Gα6Ino

EtN-P-[Mα2][G]Mα2 Mα6 M

EtN-P-[Mα2][X]Mα2 Mα6 M

EtN-P-[Mα2][EtN-P]Mα2 Mα6 M

Mα2 [Mα2][G]Mα2 Mα6 M

Mα2 [Mα2][X]Mα2 Mα6 M

Mα2 [Mα2][EtN-P]Mα6 M

Mα2 Mα6 M

Mα6 Mα4G

EtN-P-[Mα2][G]Mα2 M

EtN-P-[Mα2][X]Mα2 M

EtN-P-[Mα2][EtN-P]Mα2 M

or derivative or equivalent thereof wherein EtN is ethanolamine, P is phosphate, M is mannose, G is non-N-acetylated glucosamine, [G] is any non-N-acetylated hexosamine, Ino is inositol or inositol-phosphoglycerol, [X] is any other substituent, α represents α-linkages which may be substituted with β-linkages wherever required, and numeric values represent positional linkages which may be substituted with any other positional linkages as required.

33. A method according to any one of ~~claims 24-31~~ claim 24 wherein said disease condition is malaria.

34. Use of a composition comprising a molecule capable of inducing an immune response directed to a micro-organism GPI inositolglycan domain but substantially incapable of inducing an immune response directed to a lipidic domain of GPI in the manufacture of a medicament for the therapeutic and/or

prophylactic treatment of a mammalian disease condition characterised by infection with said micro-organism.

35. A method according to claim 34 wherein said composition comprises a *Plasmodium* GPI inositolglycan domain or derivative or equivalent thereof which inositolglycan domain comprises insufficient lipidic domain of a *Plasmodium* GPI to elicit or induce an immune response directed to a GPI lipidic domain.

36. A composition capable of inducing an immune response directed to a micro-organism said composition comprising a molecule capable of inducing an immune response against a micro-organism GPI inositolglycan domain but substantially incapable of inducing an immune response to a lipidic domain of a GPI.

37. A composition according to claim 36 wherein said molecule comprises a modified GPI molecule or derivative or equivalent thereof which modified GPI molecule comprises insufficient lipidic domain to induce or elicit an immune response directed to a GPI lipidic domain.

38. A vaccine composition comprising as the active component a molecule capable of inducing an immune response directed to a micro-organism GPI inositolglycan domain but substantially incapable of inducing an immune response directed to a lipidic domain of a GPI together with one or more pharmaceutically acceptable carriers and/or diluents.

39. A vaccine composition according to claim 38 wherein said molecule comprises a modified GPI molecule or derivative or equivalent thereof which modified GPI molecule comprises insufficient lipidic domain to induce or elicit an immune response directed to a GPI lipidic domain.

40. A pharmaceutical composition comprising a molecule capable of inducing an immune response directed to a micro-organism GPI inositolglycan domain but substantially incapable of inducing an immune response directed to a lipidic domain of a GPI together with one or more pharmaceutically acceptable carriers and/or diluents.

41. A pharmaceutical composition according to claim 40 wherein said molecule comprises a modified GPI molecule or derivative or equivalent thereof which modified GPI molecule comprises insufficient lipidic domain to induce or elicit an immune response directed to a GPI lipidic domain.

42. A composition according to any one of claims 37, ~~39 or 41~~ wherein said modified GPI molecule is the inositolglycan domain portion of GPI or a derivative or equivalent thereof.

43. A composition according to any one or claims 37, ~~39, 41 or 42~~ wherein said modified GPI molecule is a modified parasite GPI molecule or derivative or equivalent thereof.

44. A composition according to claim 43 wherein said parasite is *Plasmodium*.

45. A composition according to claim 41 wherein said *Plasmodium* is *P.falciparum*.

46. A composition according to claim 42 wherein said modified *Plasmodium falciparum* GPI molecule is a *Plasmodium falciparum* GPI inositolglycan domain.

47. A composition according to claim 46 wherein said GPI inositolglycan domain comprises the structure

ethanolamine-phosphate-(Manα1,2)-Manα1,2Manα1,6Manα1,4GlcN-*myo*-inositol phosphoglycerol

or derivative or equivalent thereof.

48. A composition according to claim 46 wherein said GPI inositolglycan domain comprises the structure

X_1 - X_2 - X_3 -X_4 - ethanolamine-phosphate-(Manα1,2)-Manα1,2Manα1,6Manα1,4GlcN-*myo*-inositol phosphoglycerol

wherein X_1, X_2, X_3 and X_4 are any 4 amino acids, or derivative or equivalent of said GPI inositolglycan domain.

49. A composition according to claim 46 wherein said GPI inositolglycan domain comprises the structure:

EtN-P-[Mα2]Mα2 Mα6 Mα4Gα6Ino
EtN-P-[Mα2][G]Mα2 Mα6 Mα4Gα6Ino
EtN-P-[Mα2][X]Mα2 Mα6 Mα4Gα6Ino
EtN-P-[Mα2][EtN-P]Mα2 Mα6 Mα4Gα6Ino
EtN-P-Mα2 Mα6 Mα4G
Mα2 Mα6 Mα4G
EtN-P-Mα2 Mα6 M
EtN-P-[Mα2][G]Mα2 Mα6 Mα4G
EtN-P-[Mα2][X]Mα2 Mα6 Mα4G
EtN-P-[Mα2][EtN-P]Mα2 Mα6 Mα4G
Mα2 [Mα2][G]Mα2 Mα6 Mα4G
Mα2 [Mα2][X]Mα2 Mα6 Mα4G
Mα2 [Mα2][EtN-P]Mα6 Mα4G
Mα6 Mα4Gα6Ino

Mα2 Mα6 Mα4Gα6Ino

Mα2 [Mα2]Mα6 Mα4Gα6Ino

Mα2 [Mα2][G]Mα6 Mα4Gα6Ino

Mα2 [Mα2][X]Mα6 Mα4Gα6Ino

EtN-P-[Mα2][G]Mα2 Mα6 M

EtN-P-[Mα2][X]Mα2 Mα6 M

EtN-P-[Mα2][EtN-P]Mα2 Mα6 M

Mα2 [Mα2][G]Mα2 Mα6 M

Mα2 [Mα2][X]Mα2 Mα6 M

Mα2 [Mα2][EtN-P]Mα6 M

Mα2 Mα6 M

Mα6 Mα4G

EtN-P-[Mα2][G]Mα2 M

EtN-P-[Mα2][X]Mα2 M

EtN-P-[Mα2][EtN-P]Mα2 M

or derivative or equivalent thereof wherein EtN is ethanolamine, P is phosphate, M is mannose, G is non-N-acetylated glucosamine, [G] is any non-N-acetylated hexosamine, Ino is inositol or inositol-phosphoglycerol, [X] is any other substituent, α represents α-linkages which may be substituted with β-linkages wherever required, and numeric values represent positional linkages which may be substituted with any other positional linkages as required.

50. An antibody directed to a GPI inositolglycan domain but which antibody is substantially incapable of interacting with the lipidic domain of a GPI.

51. A pharmaceutical composition comprising an antibody directed to a GPI inositolglycan domain, but which antibody is substantially incapable of interacting with a GPI lipidic domain, together with one or more pharmaceutically acceptable carriers and/or diluents.

52. A method of inhibiting, halting or delaying the onset or progression of a mammalian disease condition characterised by a micro-organism infection said method comprising administering to said mammal an effective amount of an antibody as claimed in claim 50 ~~or 51~~.

53. Use of an antibody according to claim 50 or 51 in the manufacture of a medicament for inhibiting, halting or delaying the onset or progression of a disease condition characterised by the infection of a mammal by a micro-organism.